(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



TERRE DE LEGIS DE LE

(43) International Publication Date 3 June 2004 (03.06.2004)

PCT

(10) International Publication Number WO 2004/045297 A1

(51) International Patent Classification⁷: 9/00, A23L 1/39, 1/40

A23D 7/00,

(21) International Application Number:

PCT/EP2003/012032

(22) International Filing Date: 29 October 2003 (29.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02079835.1

18 November 2002 (18.11.2002) EF

- (71) Applicant (for AL, AM, AT, AZ, BA, BE, BF, BG, BJ, BR, BY, CF, CG, CH, CI, CM, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GA, GE, GN, GQ, GR, GW, HR, HU, ID, IS, IT, JP, KG, KP, KR, KZ, LR, LT, LU, LV, MA, MC, MD, MG, MK, ML, MR, MX, MZ, NE, NI, NL, NO, PH, PL, PT, RO, RU, SE, SI, SK, SN, SY, TD, TG, TJ, TM, TN, TR, UA, UZ, VN, YU only): UNILEVER N.V. [NL/NL]; UNILEVER N.V., Weena 455, NL-3013 AL Rotterdam (NL).
- (71) Applicant (for AE, AG, AU, BB, BZ, CA, CY, EG, GB, GD, GH, GM, IE, IL, KE, LC, LK, LS, MN, MW, NZ, OM, PG, SC, SD, SG, SL, SZ, TT, TZ, UG, VC, ZA, ZM, ZW only): UNILEVER PLC [GB/GB]; UNILEVER HOUSE, Blackfriars, London, Greater London EC4P 4BQ (GB).
- (71) Applicant (for IN only): HINDUSTAN LEVER LIM-ITED [IN/IN]; Hindustan Lever House, 165/166 Backbay Reclamation, Maharashtra, 400 020 Mumbai (IN).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FLÖTER, Eckhard [DE/NL]; Unilever R & D Vlaardingen, Olivier

van Noortlaan 120, NL-3133 AT Vlaardingen (NL). LANSBERGEN, Gabriel, J, T [NL/NL]; Unilever R & D Vlaardingen, Olivier van Noortlaan 120, NL-3133 AT Vlaardingen (NL). ROMANN, Joachim [DE/DE]; Unilever Bestfoods Deutschland GmbH, Knorrstrasse 1, 74074 Heilbronn (DE). RUPP, Winfried [DE/DE]; Unilever Bestfoods Deutschland GmbH, Knorrstrasse 1, 74074 Heilbronn (DE).

- (74) Agent: WURFBAIN, Gilles, L; Unilever NV, Patent Department, Olivier van Noortlaan 120, NL-3133 AT Vlaardingen (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FOOD PRODUCTS COMPRISING FAT AND A STARCH-CONTAINING MATTER AND PROCESS FOR THEIR MANUFACTURE

(57) Abstract: Food compositions comprising 15-80% wt of triglycerides of fatty acids, 20-85% wt aStarchy or starch-containing matter and which compositions contain less than 30% wt of moisture, wherein the amount of H3 (triglyceride of 3 saturated fatty acids of 16 or more carbon atoms) and H2U (triglyceride of 2 saturated fatty acids of 16 or more carbon atoms and 1 cis-unsaturated fatty acid) taken together is at least 55% wt on the total amount of triglycerides, and process for their manufacture.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 ' A23D7/00 A23D9/00

D9/00 A23L1/39

A23L1/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A23D A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, FSTA

O. DOGOIN	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 568 551 A (SEEWI GILA ET AL) 4 February 1986 (1986-02-04)	15,16
A	column 3, line 40 -column 6, line 8; claims 1,4,5,7,8,13,14; examples	1-14,16
X	EP 1 249 172 A (NESTLE SA) 16 October 2002 (2002-10-16)	15,16
A	page 2, line 45-47 page 3, line 19-27; examples 1-3	1–14
X	US 5 332 585 A (ODERMATT ROBERT G ET AL) 26 July 1994 (1994-07-26)	15,16
A	column 1, line 52 -column 2, line 68; claims 1,2,5-7,13,14; example	1-14
	-/	
		ļ

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	"T" tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 11 March 2004	Date of mailing of the International search report 19/03/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fac (+31–70) 340–3016	Authorized officer Muller, I



		101711 03712032		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category °	Citation of document, with indication, where appropriate, of the relevant passages			
A	US 5 939 114 A (CAIN FREDERICK WILLIAM ET AL) 17 August 1999 (1999-08-17) column 1, line 1 -column 3, line 18; claims; examples	1-16		

INTERNATIONAL SEARCH REPORT

PCT/EP 03/12032

Patent document		Publication		Patent family	Publication
cited in search report	_	date	_	member(s)	date
US 4568551	A	04-02-1986	DE	3243963 C1	12-04-1984
			AT	27219 T	15-06-1987
			AU	563835 B2	23-07-1987
			AU	2161083 A	31-05-1984
			CA	1204618 A1	20-05-1986
			DK	540483 A ,B,	28-05-1984
			EP	0112504 A2	04-07-1984
			ËS	8501962 A1	16-03-1985
			FΙ	834319 A ,B,	28-05-1984
			GB	2130467 A ,B	06-06-1984
			GR	81256 A1	11-12-1984
			HK	84488 A	28-10-1988
			ΙĒ	54781 B1	31-01-1990
			ĴΡ	59151860 A	30-08-1984
			KR	9309078 B1	22-09-1993
			MX	9204075 A1	31-01-1994
			MX	164074 B	13-07-1994
				53587 A	31-12-1987
			MY		28-05-1984
			NO	834339 A ,B,	28-05-1984 14-11-1986
			PH	20259 A	01-12-1983
			PT	77707 A ,B	
			TR	22738 A	26-05-1988 25-07-1984
		·	ZA 	8308750 A	25-07-1964
EP 1249172	Α	16-10-2002	EP	1249172 A1	16-10-2002
US 5332585	Α	26-07-1994	CH	681194 A5	15-02-1993
			AT	123386 T	15-06-1995
			AU	647204 B2	17-03-1994
			AU	8777091 A	11-06-1992
			BR	9105275 A	18-08-1992
			CA	2055872 A1	08-06-1992
			DE	69110256 D1	13-07-1995
			DE	69110256 T2	26-10-1995
			DK	490082 T3	25-09-1995
			EP	0490082 A1	17-06-1992
			ES	2073646 T3	16-08-1995
			GR	3017238 T3	30-11-1995
			ΙE	913904 A1	17-06-1992
			JP	3149230 B2	26-03-2001
			JP	4267863 A	24-09-1992
			MX	9102388 A1	01-06-1992
			PT	99696 A ,B	31-01-1994
			ZA	9109000 A	26-08-1992
US 5939114	Α	17-08-1999	AU	713549 B2	02-12-1999
			AU	3609395 A	26-04-1996
			CA	2199827 A1	11-04-1996
			DE	69509914 D1	01-07-1999
			DE	69509914 T2	20-01-2000
			WO	9610339 A2	11-04-1996
			ΕP	0786943 A1	06-08-1997
			JP	10506286 T	23-06-1998